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May 28, 2013 Via Electronic Mail

Ms. Raji Josiam Remedial Project Manager, Superfund Division U.S. Environmental Protection Agency Region 6 1445 Ross Avenue Dallas, Texas

RE: US Oil Recovery Superfund Site

Conceptual Site Models

Response to Comments and Revised Conceptual Site Models

Dear Ms. Josiam,

We appreciate EPA's May 8, 2013 comments on the Draft Conceptual Site Models (CSMs). We have reviewed the comments and provided a detailed response to each comment in the attached table. The revised CSMs are also attached to this email.

We look forward to discussing these with you.

Should you have any questions, please do not hesitate to contact me.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC

Matthew K. Wickham

Principal Hydrogeologist

Attachments

RESPONSE TO EPA'S MAY 8, 2013 COMMENTS ON THE DRAFT PRELININARY CONCEPTUAL SITE MODELS (DATED APRIL 2013) US OIL RECOVERY SUPERFUND SITE

COMMENTER	COMMENT NUMBER	COMMENT	RESPONSE	ACTION
Kenneth	1	It is appropriate to have separate conceptual Site models (CSMs) for human health and ecological risk. It is also appropriate to have separate CSMs for the two Operable Units.	We appreciate your input and believe that separate CSMs will become necessary as we move through this process.	No action necessary.
Shewmake		This is an improvement over previous drafts of this document		
Kenneth	2	The format of the CSMs has been changed to show sources and release mechanisms, epxosure mediums, and potential receptors. This is a big improvement over the previous	See specific responses to the individual bullets below.	See below.
Shewmake		draft of the ecological CSM. The depiction of the possible pathways from the primary source to exposure medium appears to show most of the relevant pathways that need to be investigated, but the following changes will need to be made to the draft CSMs.	e e	
Kenneth	2a	Both ecological CSMs (Figures 2 and 4) will need to be revised to show consumption of dietary items by higher trophic level receptors. The dietary items should be listed under	r Agree	Figures 2 and 4 have been revised to reflect
Shewmake	24	exposure medium and the relevant pathways need to be shown		the comment.
Kenneth	2b	This is a preliminary CSM and the potential receptors will need to be refined during the risk assessment process. In the early stages it is OK to use general caterories like birds	and gree. Benthic invertebrates have been included for on-site and off-site sediment and surface water. The general categories of receptors and ecological	
Shewmake		mammals for receptors but this may need to be refined as more information is gathered at the site. When assessment and measurement receptors are selected this will need to be		the comment.
		shown on the CSM. Categories may include piscivorous birds, shore birds, song birds, herbivorous mammals, omnivorous mammals, and other categories of receptors. It is	gathered.	
		possible that reptiles and amphibians will need to be evaluated. One category of receptor that needs to be added at this time is benthic invertebrates.		
Kenneth	2c	During the May 3, 2013 site visit we observed several areas on site at the USOR OU with shallow standing water. In most cases it appeared that the water was the short term	On-site surface water and sediment will be sampled during the investigation and information related to the the nature of surface water at the Site will be	Figure 2 has been revised to reflect the
Shewmake		result of recent rainfall, but in some cases we observed aquatic plants and animals in these areas. This indicates that some on-site surface water and sediment will need to be	evaluated during Site activities and included in the SLERA.	comment and show these pathways as
		evaluated. The CSM needs to be changed to reflect this		complete.
Kenneth	2d	It appears that both fresh water and salt water are present at the site or in close proximity to the site. Future versions of the CSM will need to depict the presence of both	The salinity of the on-site and off-site surface water will be evaluated during site characterization. This information will be included in the SLERA and	No changes to the CSMs have been made.
Shewmake	<u> </u>	freshwater and saltwater because the exposure for various receptors wil be different for these exposure media.	the ecological CSMs will be revised if necessary.	TPL
Kenneth Shewmake	3	Figures 2 and 4, note number (1) in the legend: The site has standing water, shallow wetland areas, undeveloped fields, numerous trees, and is in close proximity to sensitive environmental areas. It is likely that transport pathways exist from the site to sensitive habitat that is located adjacent to the site. The presence of threatened and endangered	Transport pathways, sensitive habitat, the presence of threatened and endangered species on or in close proximity to the Site and future land use will be evaluated as part of the RI/FS and the SLERA.	The reference to acute exposure in the footnotes of the Ecological CSMs have
Shewmake		species on or in close proximity to the site has not been evaluated. Future land use has not been established and because of this it is not clear if the area could be returned to	evaluated as part of the KP13 and the SELKA.	been removed.
		natural conditions. For these reasons it is inappropriate to limit the risk assessment to acute exposure at this time. All areas with a one should be shown as complete pathways.		local removed.
	<u> </u>			
Kenneth	4	Figures 2 and 4, note number (2) in the legend: Based on observations made during the May 3, 2013 site visit, the on-site soil is suitable habitat for plants and invertebrates. In	We agree that portions of the Site may serve as ecological habitat. These areas will be sampled during the RI and evaluated in the SLERA.	Figures 2 and 4 have been revised to reflec
Shewmake		addition to this plants and invertebrates could be used as prey items by receptors. Exposure pathways listed with a two note need to be changed to show a complete pathway.		the comment.
Kenneth	5	Note (4) in the legend of Figures 1-4: The legend uses color coding to show that the media collection during the first round of sampling will be done iteratively in three phases.	We agree with the majority of the comment. We would like to keep the off-site soil sampling as a separate phase from the surface water and sediment	No changes to the CSMs have been made
Shewmake		The HH CSM (fig 1 and 3) show 4 phases of sampling. The reason provided for doing sampling in phases is to avoid sampling for COPCs that did not originate at the site, and		based on this comment.
		refine sampling needs based on sample results. An iterative sampling plan is acceptable, but it should be assumed that sampling for off-site soil, off-site surface water, and off-s		
		sediment will be required to complete the SLERA. A preliminary sampling plan for sampling off-site surface water, off-site sediment, and off-site soil should be included in the		
		work plan and in the SAP. This sampling plan can be modified when phase one sample results are obtained. The first phase of the first round of sampling should include on-site	additional studies to support the BERA.	
		soil, on-site surface water, on-site sediment, and groundwater. An evaluation of the possibility of groundwater to surface water transport of contaminants will be needed. The second phase and third phase depicted in the CSM should be combined as the results of the second phase (off-site soil) will not impact the decision to sample off-site sediment a		
		off-site surface water. Additional on-site media samples can be collected in phase 2 as the results from phase 1 can be used to screen for the possibility of vapor intrustion. The		
		third phase would include any fish and biota samples that are needed. A second round of sampling after the SLERA report may be needed for the BERA as toxicity and		
Kenneth	6	bioausilability studies may be peeded. A topographic map and a map depicting areas that are within the 100 year floodplain would be useful for determining the off-site areas that need to be sampled. A careful revie	We are with the gring made in the comment	No changes to the CSMs have been made
Shewmake	0	of available information on site history will also be needed before ruling out COPCs based on on-site media sample results. Information on groundwater depth, flow and	w we agree with the points made in the comment.	based on this comment.
Shewmake		classification will also be needed.		based on this comment.
Kenneth	Revisions to	The commenter provided specific suggestions for changes to the receptor and exposure medium sections of Figures 2 and 4.	Agree.	Figures 2 and 4 have been revised per the
Shewmake	Figs 2 and 4			table.
Dipinjana	1	The sampling phases should be limited to two. On-site groundwater and on-site soil should be in phase 1. The rest (off-site surface soil, on-site air, off-site air, surface water,	We believe that three phases of sampling is more appropriate in order to have a better understanding of site-related COCs prior to sampling media in	tuoie.
Bhattacharya	1 -			No revisions to the CSMs based on this
II		sediment, and fish/shellfish) should be in the second phase. Background samples could also be collected in the second phase.	Vince Bayou given the numerous potential other sources in the area. The first phase will include on-site soil, on-site groundwater, on-site surface water	No revisions to the CSMs based on this comment
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